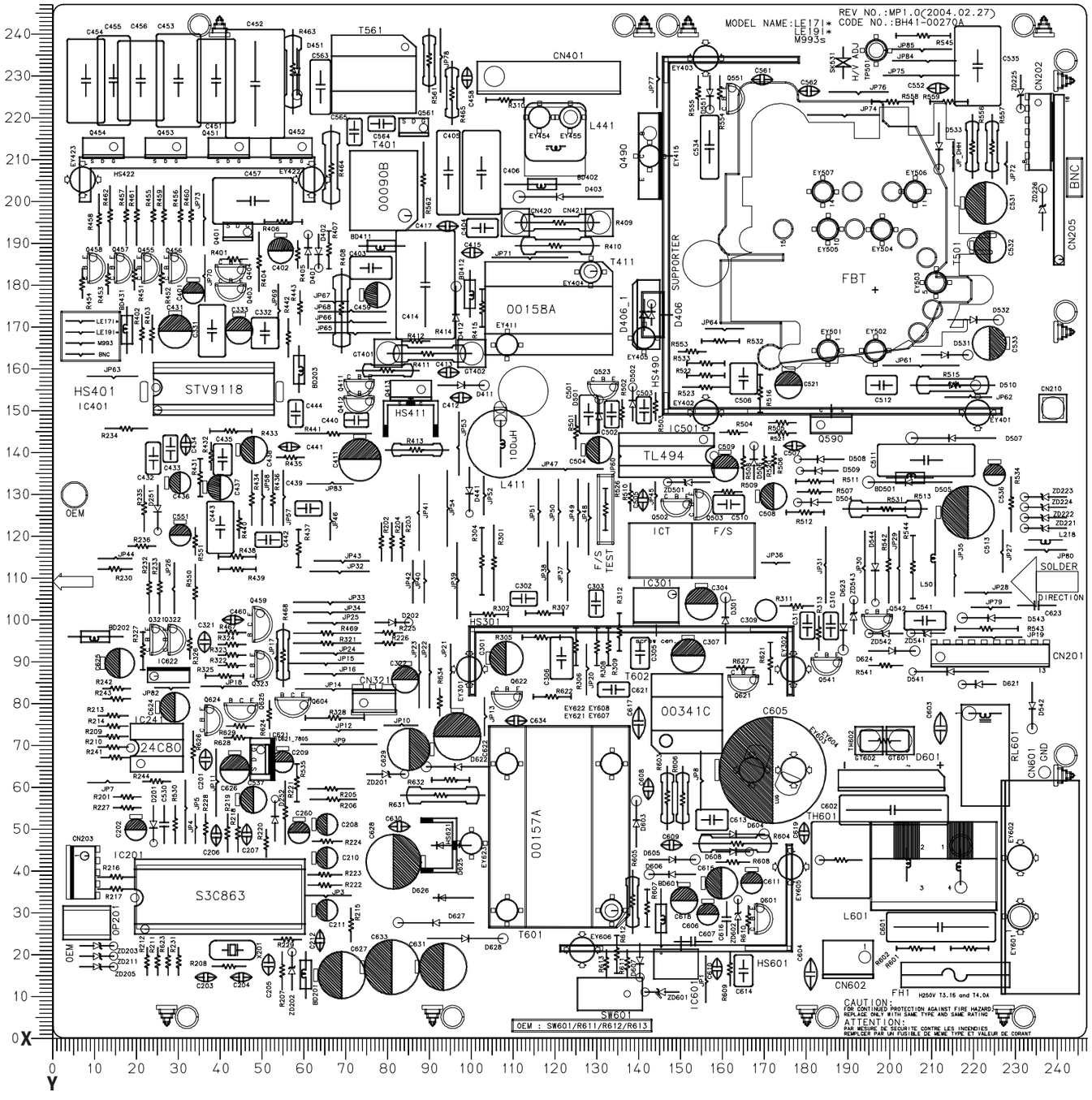
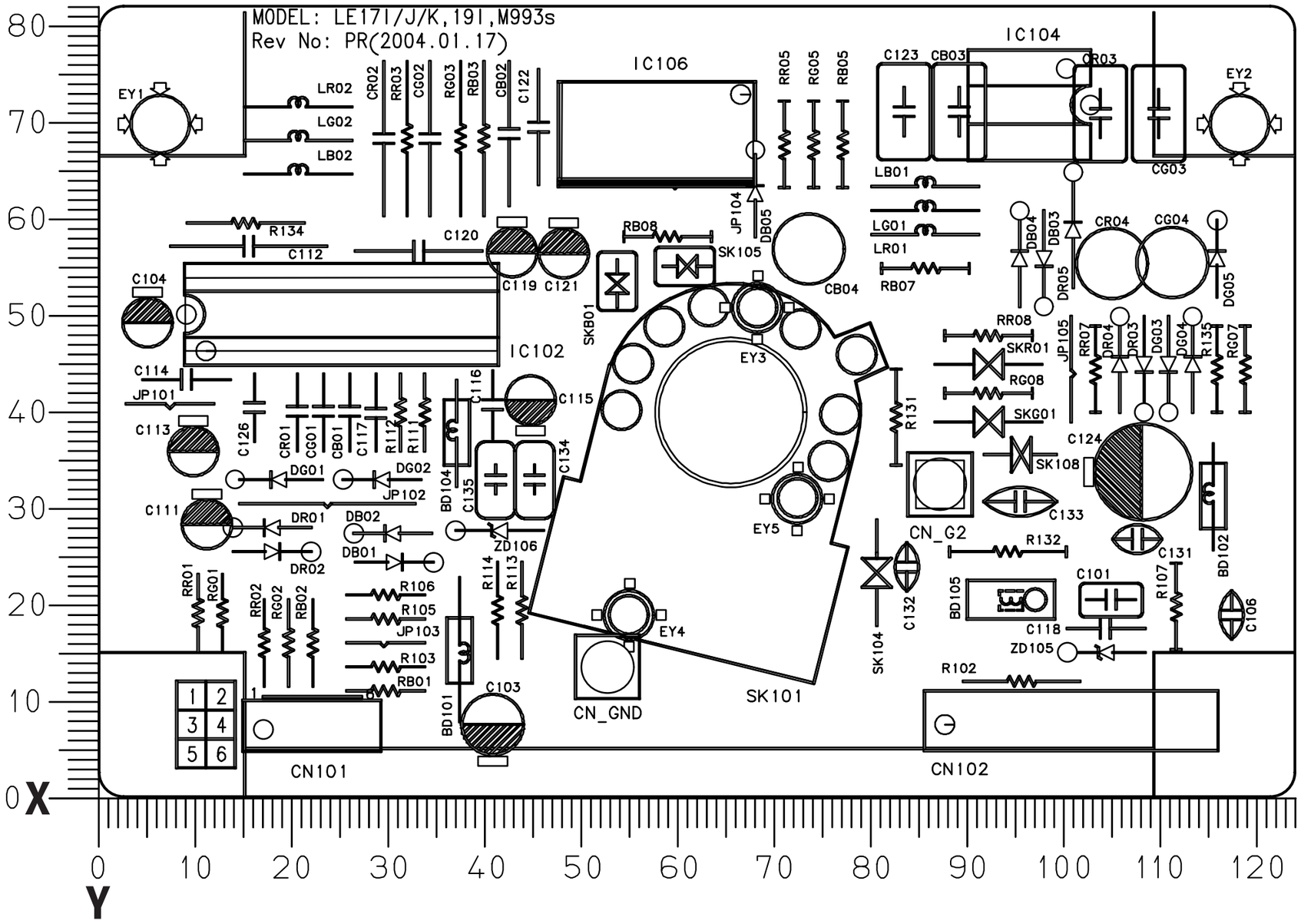
10 PCB Layout

10-1 Main PCB Layout



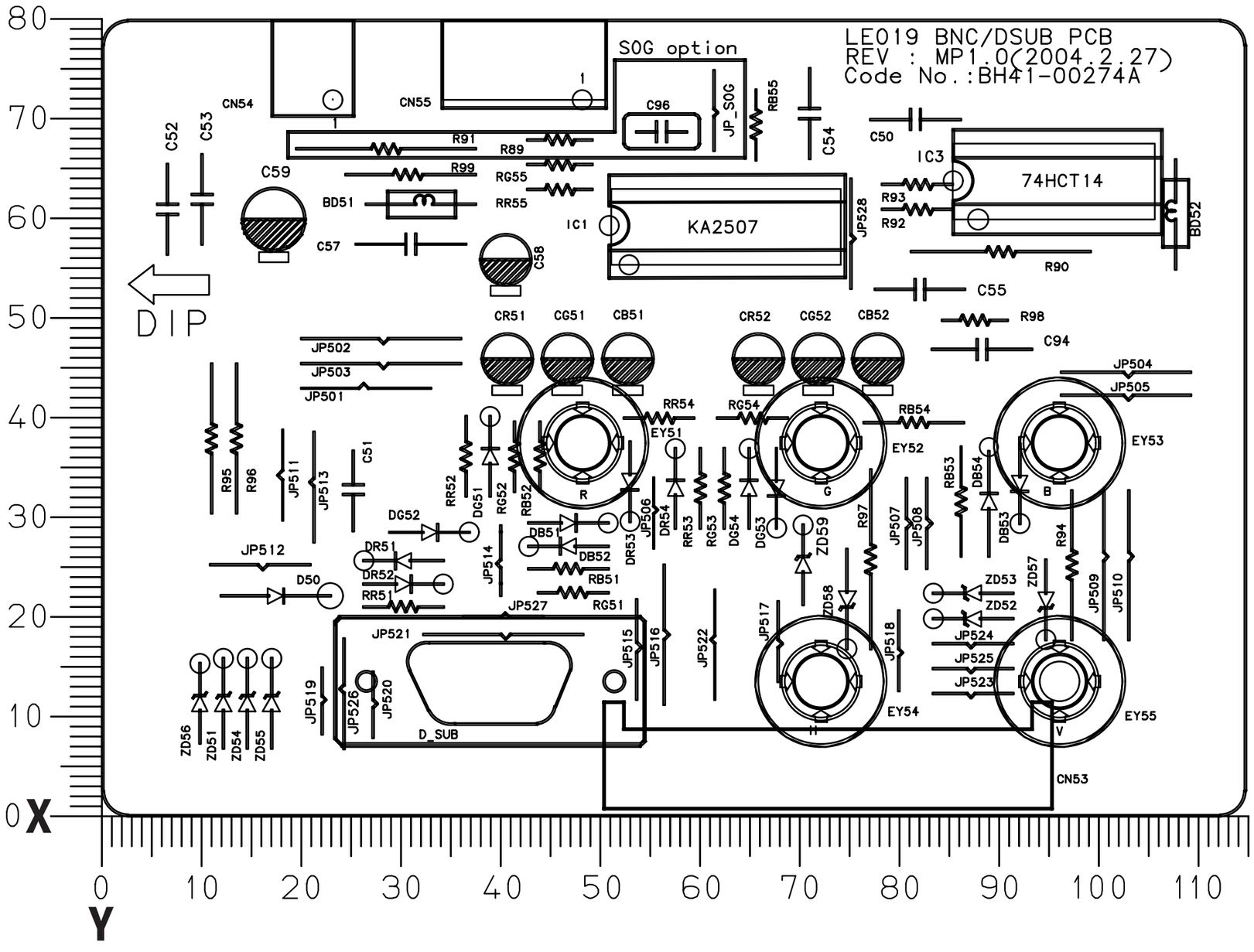
Loc. No.	Description	X	Y
DIODE			
D201	DIODE-SIG,1N4148,DO-35	23.8	55.5
D202	DIODE-SIG,1N4148,DO-35	77.0	99.3
D251	DIODE-SIG,1N4148,DO-35	25.0	132.0
D252	DIODE-SIG,1N4148,DO-35	53.1	47.1
D301	UF4004,400V,1A,DO-41	160.7	94.2
D401	DIODE-SIG,1N4148,DO-35	60.7	184.0
D402	DIODE-SIG,1N4148,DO-35	63.2	192.0
D403	-,40V,3A,DO-201AD,BK	131.5	201.0
D406	DTV1500HFP,1500,6A,TO-220FPAC,	143.1	175.4
D406_1	FFAF10U170S,1700V,10A,DO-201AD,ST	141.3	178.3
D411	UF1G,400V,1.2A,DO-204AL,TP	92.0	156.0
D412	UF4004,400V,1A,DO-41	96.3	164.6
D441	1SS244,250V,200mA,300mW,75nS,D	99.5	136.3
D451	UF4004,400V,1A,DO-41	58.4	236.4
D501	DIODE-SIG,1N4148,DO-35	130.5	144.5
D502	DIODE-SIG,1N4148,DO-35	138.6	147.5
D504	DIODE-SIG,1N4148,DO-35	186.0	128.0
D505	GUR460L-5700,600V,4A,DO-201AD,	214.9	132.8
D506	DIODE-SIG,1N4148,DO-35	167.5	133.5
D507	GUR460L-5700,600V,4A,DO-201AD,	225.2	143.3
D508	DIODE-SIG,1N4148,DO-35	189.0	138.3
D509	DIODE-SIG,1N4148,DO-35	187.5	135.5
D510	UF4004,400V,1A,DO-41	209.5	156.0
D531	UF4007,1KV,1A,DO-41	207.6	163.2
D532	UF4004,400V,1A,DO-41	214.0	171.6
D533	RGP02-12,1200V,0.5A,DO-204AL	212.0	223.5
D541	DIODE-SIG,1N4148,DO-35	223.5	87.5
D542	1N4936GP,400V,1A,DO-204AL,TP	234.0	84.9
D543	TVR10G,400V,1.0A,DO-41	231.3	100.5
D544	DIODE-SIG,1N4148,DO-35	196.5	121.0
D551	DIODE-SIG,1N4148,DO-35	203.0	224.5
D601	D3SBA60,600V,2.3A,SIP4,BK	211.6	62.3
D603	UF4007,1KV,1A,DO-41	139.4	45.7
D604	UF4007,1KV,1A,DO-41	155.0	48.7
D605	TVR10G,400V,1.0A,DO-41	142.5	42.6
D606	TVR10G,400V,1.0A,DO-41	153.5	39.1
D607	DIODE-SIG,1N4148,DO-35	140.8	22.6
D608	DIODE-SIG,1N4148,DO-35	158.5	44.5
D621	DIODE-SIG,1N4148,DO-35	225.4	84.5
D622	UG2D,200V,2A,DO-204AC,TP	104.5	64.7
D623	UF4004,400V,1A,DO-41	188.8	104.5
D624	UF4004,400V,1A,DO-41	195.0	92.5
D625	31DF4,400V,3A,DO-201AD	100.0	46.0
D626	31DF4,400V,3A,DO-201AD	100.5	33.5
D627	UG2D,200V,2A,DO-204AC,TP	100.5	27.5
D628	UF1G,400V,1.2A,DO-204AL,TP	89.5	23.8
ZD201	UZ24BH,24V,24.2-25.7V,500mW,DO	75.0	63.0
ZD202	UZ4.7BSA,4.7V,4.47-4.65V,500mW	57.1	11.5
ZD203	UZ6.2BSB,6.2V,5.99-6.24V,500mW	6.5	22.0
ZD205	UZ6.2BSB,6.2V,5.99-6.24V,500mW	6.5	17.0
ZD211	UZ6.2BSB,6.2V,5.99-6.24V,500mW	6.5	19.5
ZD221	UZ6.2BSB,6.2V,5.99-6.24V,500mW	242.2	121.8
ZD222	UZ6.2BSB,6.2V,5.99-6.24V,500mW	242.2	124.3
ZD223	UZ6.2BSB,6.2V,5.99-6.24V,500mW	242.2	129.3
ZD224	UZ6.2BSB,6.2V,5.99-6.24V,500mW	242.2	126.8
ZD225	UZ6.2BSB,6.2V,5.99-6.24V,500mW	231.3	230.1
ZD226	UZ6.2BSB,6.2V,5.99-6.24V,500mW	236.5	193.0
ZD501	UZ6.2BSB,6.2V,5.99-6.24V,500mW	154.5	131.9
ZD541	MTZJ30D,30V,29.02-30.51V,500mW	213.0	96.7
ZD542	UZ39BSB,35.36-37.19V,500MW,DO-34,TP	195.0	96.5
ZD543	UZ4.7BSA,4.7V,4.47-4.65V,500mW	191.5	96.5
ZD601	UZ39BSB,35.36-37.19V,500MW,DO-34,TP	141.5	11.0
ZD602	UZ6.2BSB,6.2V,5.99-6.24V,500mW	163.7	25.0
IC			
IC201	NT86F63,8BIT,SDIP,42P,600MIL,1	22.0	26.0
IC241	24C081,8KBIT,DIP,8P,300MIL,10M	21.0	65.5
IC301	STV9302A,HEPTAWATT,7P,10.22X15	148.0	106.0
IC401	TDA4859,DIP,32P,400MIL,PLASTIC	25.0	150.0
IC501	494,DIP,16P,300MIL,PLASTIC,40V	155.5	143.0
IC601	-,DP104C,TO-220-5L,5P,POWER SW	148.9	18.5
IC621	IRFU210B,N,200V,2.7A,1.50HM,2.	49.4	68.9
IC622	78R12,TO-220,3P,-,-,12V,-,0to+	24.2	86.5
IC621_7805	7805,TO-220,3P,-,PLASTIC,4.8/5	49.4	69.1
TRANSISTOR			
Q321	2N3904,NPN,625mW,TO-92,-,100-3	24.5	97.7
Q322	2N3906,PNP,625mW,TO-92,TP,100-	28.7	97.7
Q323	TR-NPN,KSC945,TO-92,EBC	49.5	91.5
Q401	IRFU210B,N,200V,2.7A,1.50HM,2.	46.5	192.5
Q403	TR-NPN,KSC945,TO-92,EBC	45.0	179.0
Q404	KSA733-Y,PNP,250mW,TO-92,-,120	45.0	183.5
Q411	TR-NPN,KSC945,TO-92,EBC	75.0	156.1
Q412	KSA733-Y,PNP,250mW,TO-92,-,120	75.0	151.8
Q413	IRF634A,N,250V,8.1A,450mohm,74	88.0	155.0
Q451	IRFS630B,N,200V,9A,0.40HM,38W,	44.5	213.0
Q452	IRFS630B,N,200V,9A,0.40HM,38W,	59.5	213.0
Q453	IRFS630B,N,200V,9A,0.40HM,38W,	29.5	213.0
Q454	IRFS630B,N,200V,9A,0.40HM,38W,	14.5	213.0
Q455	TR-NPN,KSC945,TO-92,EBC	22.0	187.5
Q456	TR-NPN,KSC945,TO-92,EBC	29.0	187.5
Q457	TR-NPN,KSC945,TO-92,EBC	15.0	187.5
Q458	TR-NPN,KSC945,TO-92,EBC	8.0	187.5
Q459	KSD1616-Y,NPN,750mW,TO-92,TP,1	49.5	101.5
Q490	FJL6920,NPN,200000MW,TO-264,ST	142.6	216.2
Q502	2N3904,NPN,625mW,TO-92,-,100-3	151.5	127.5
Q503	2N3906,PNP,625mW,TO-92,TP,100-	155.4	129.1
Q523	2N3904,NPN,625mW,TO-92,-,100-3	134.0	155.5
Q541	TR-NPN,KSC945,TO-92,EBC	187.5	89.8
Q542	2N6520,PNP,625mW,TO-92,-,30-20	199.5	100.7
Q551	KSP44,NPN,625mW,TO-92,-,50-200	198.5	236.0
Q561	IRFU210B,N,200V,2.7A,1.50HM,2.	88.5	217.5
Q590	2SK2761-01MR,N,600V,10A,0.85oh	183.5	146.5
Q601	2N3904,NPN,625mW,TO-92,-,100-3	169.0	31.0
Q604	KSD1616-Y,NPN,750mW,TO-92,TP,1	60.0	79.5
Q621	KSC1008,NPN,80V,60V,700mA,800m	167.5	85.5
Q622	TR-NPN,KSC945,TO-92,EBC	111.1	81.5
Q624	TR-NPN,KSC945,TO-92,EBC	37.5	78.5
Q625	KSB1116-Y,PNP,0.75W,TO-92,-,13	47.5	78.5

10-2 Video PCB Layout



Loc. No.	Description	X	Y
DIODE			
DB01	DIODE-SWITCHING	25.4	24.6
DB02	DIODE-SWITCHING	33.4	27.1
DB03	DIODE-SWITCHING	97.2	61.0
DB04	DIODE-SWITCHING	94.7	51.0
DB05	DIODE-SWITCHING	67.5	56.5
DG01	DIODE-SWITCHING	22.4	33.0
DG02	DIODE-SWITCHING	32.5	33.0
DG03	DIODE-SWITCHING	113.5	48.2
DG04	DIODE-SWITCHING	116.0	39.2
DG05	DIODE-SWITCHING	111.7	63.0
DR01	DIODE-SWITCHING	21.7	27.1
DR02	DIODE-SWITCHING	13.7	24.6
DR03	DIODE-SWITCHING	111.0	48.2
DR04	DIODE-SWITCHING	108.5	39.2
DR05	DIODE-SWITCHING	102.7	53.0
ZD105	DIODE-ZENER	5.0	15.0
IC			
IC102	IC-VIDEO AMP	11.0	46.4
IC104	IC-BIAS CLAMP	98.1	75.6
IC106	IC HYBRID	64.3	70.4

10-3 BNC PCB Layout



Loc. No.	Description	X	Y
DIODE			
D50	DIODE-RECTIFIER	11.9	22.1
DB51	DIODE-SIG,1N4148,DO-35	42.9	29.5
DB52	DIODE-SIG,1N4148,DO-35	50.9	27.1
DB53	DIODE-SIG,1N4148,DO-35	92.3	37.4
DB54	DIODE-SIG,1N4148,DO-35	89.2	26.1
DG51	DIODE-SIG,1N4148,DO-35	39.0	32.2
DG52	DIODE-SIG,1N4148,DO-35	28.9	28.5
DG53	DIODE-SIG,1N4148,DO-35	67.8	37.0
DG54	DIODE-SIG,1N4148,DO-35	65.0	29.0
DR51	DIODE-SIG,1N4148,DO-35	34.3	25.7
DR52	DIODE-SIG,1N4148,DO-35	26.3	23.3
DR53	DIODE-SIG,1N4148,DO-35	53.1	37.6
DR54	DIODE-SIG,1N4148,DO-35	57.6	29.0
ZD51	DIODE-ZENER	12.2	6.8
ZD52	DIODE-ZENER	91.6	19.8
ZD53	DIODE-ZENER	91.6	22.4
ZD54	DIODE-ZENER	14.6	6.8
ZD55	DIODE-ZENER	17.0	6.8
ZD56	DIODE-ZENER	9.8	7.3
ZD57	DIODE-ZENER	95.0	25.7
ZD58	DIODE-ZENER	74.9	26.8
ZD59	DIODE-ZENER	70.5	21.3
IC			
IC1	IC-VIDEO SWITCH	53.0	55.5
IC3	IC-CMOS LOGIC	88.1	60.0